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DATA ITEM DESCRIPTION
Title: COMPREHENSIVE ENGINE MANAGEMENT SYSTEM (CEMS) REPORTING
Number: DI-MGMT-81324C
AMSC Number: F9543
DTIC Applicable: No
Preparing activity: 71
Approval Date: 20150505
Limitation: N/A
GIDEP Applicable: No
Project Number: MGMT-2015-018

Applicable Forms: CEMS Event Reporting Document, DD Form 2875 (GCSS), DD Form 2875 (CEMS), and Non-Disclosure Statement.

Use/relationship: CEMS reporting is required by all organizations possessing and/or maintaining Air Force (AF) engines or components on behalf of the AF to maintain a complete and accurate worldwide inventory of AF engines, installed assemblies and components. The CEMS reporting data consists of aircraft engine and maintenance status information as directed by the AF propulsion community.

a) This Data Item Description (DID) contains the instructions for reporting engine, assembly and/or component status data to the AF Accountable Property System of Record (APSR), CEMS. It also contains the format and content preparation instructions for the data reporting generated by the specific and discrete task requirement as delineated in the contract.
b) This DID is applicable when contractors are required to report engine and/or component status data to CEMS.
c) Publications referenced below are available on the CEMS web site, https://www.my.af mil/gimmsprod/cpmo/.
d) This DID supersedes DI-MGMT-81324B.

Requirements:
1. Reference documents: The applicable issue of the documents cited herein, including their approval dates and dates of any applicable amendments, notices, and revisions, shall be as specified in the contract. Definitions and/or descriptions of the various data codes authorized for entry in the specified blocks of the CEMS Event Reporting Document are contained in United States Air Force Technical Order (TO) 00-25-254-1.

2. Format. Unless an agreed upon approved interface exists, all required input is via the reporting process known as CEMS.

3. Content.
3.1 Access to CEMS: In order to accomplish access to government computer systems for the purpose of reporting the following is required:

a. The minimum of a favorable National Agency Check with Inquiries (NACI) is required for any contractor accessing Department of Defense (DoD) information systems. Procedures concerning Industrial Security Clearances and Investigations can be found at http://www.dss.mil/isp/index.html.
b. An DD FM 2875 must be completed and sent by fax or signed email to the AF Portal Program Office: gcssaf.opsandsupport@gunter.af mil, or faxed to the AF Portal Program Office (DSN 596-5771, or faxed to the AF Portal Program Office DSN 596-5771, Commercial 334-416-5771; Option 7) to obtain an AF Portal Account. DD FM 2875, as well as additional information may be obtained at https://www.my.af mil, by accessing "View Account Requirements & Benefits."
c. After AF Portal access is obtained, a DD Form 2875, a copy of the DoD Information Assurance Awareness Training Certificate (Course: ZZ133098) and a Nondisclosure Statement must be completed requesting access to CEMS and e-mailed to CEMS.PMO.Security@us.af.mil. The form and Nondisclosure Statement may be downloaded from https://www.my.af.mil/gimmsprod/cpmo/, by clicking on the "Forms" folder and clicking "System Access." Instructions are included with the form. The DoD Cyber Awareness Challenge (Course: ZZ133098) may be completed:

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https://golearn.csd.disa mil/kc/login/login.asp?kc_ident=kc0001&blnAccess=TRUE for Dot-Mil Users and

http://iase.disa mil/eta/cyberchallenge/launchPage.htm for Dot-Com users.

d. You can only access CEMS via the AF Portal. The CEMS PMO, (405)734-7874, DSN: 884-7874, or Toll Free: 1-800-956-7351, should be contacted for further information.

3.2 Inputs to CEMS: Description of Entries on the CEMS Event Reporting document.

Block 1 - CII Designation. Direct reporting and mail-in enter CII as shown in the CII table.

Block 2 - S/N (10 Max Alpha Numeric characters). Enter the S/N as express below for position 1 thru 4 and using the last 6 characters listed on the data plate. CEMS does not recognize a dash (-). If dashes (-) are encountered on the engine, assembly or part data plate, the dash will be replaced with a zero for reporting purposes. If data plate contains any other special character, contact the CEMS PMO for instructions.

Example: 629-1234 will be input to CEMS as "0062901234." The standard method of structuring serial numbers in CEMS is as follows:

MM = Manufacturer's Code (two position)
Z = Zero (0)
C = Engine module symbol as follows:
- Basic Engine E
- Augmentor A
- Fan F
- Compressor C
- Turbine (LPT) L
- Turbine (HPT) H
- Gearbox G
- Turbine T

X= An alpha or numeric character

NOTE

- With the exception of the F107 engine, all century series engines (i.e. F100, F101,etc.) and T56 engines use structure MMZCXXXXXX, where column 5 through 10 are the values obtained from the last 6 positions on the data plate. The field will be moved to the right and zero filled on the left.
- **Examples:** F100-100 Engine "PW0E680092." "T56 engine S/Ns prior to 113432 will reflect the old S/N structure in CEMS of MMZZXXXXXX. T56 gearbox S/Ns prior to S/N 33641 will reflect the old S/N structure in CEMS of ZZMCXXXXXX. T56 engine 113432 and beyond will use MMZCXXXXXX."
- **Example:** (AD0E113432), Gearbox 33641 and beyond will use MMZCXXXXXX.
- **Example:** (AD0G033641), All other aircraft engines use structure MMZZXXXXXX, where column 5 through 10 are values obtained from the last 6 positions on the data plate. The field will be moved to the right and zero filled on the left.
- **Example:** J75-17 Engine "PW00611438." All tracked assemblies and parts and all non-F100 modules use structure 10 positions. All 10 positions are values obtained from the data plate. The field will be moved to the right and zero filled on the left. The alpha O will be converted to numeric 0 and the alpha I will be converted to numeric 1 for reporting purposes.

Block 3 - Occurrence Date and/or Hour. Enter the actual Julian date and time the status change occurred.

Block 4 - SRAN. Enter SRAN of the activity preparing report.

Block 5 - Command. Enter the applicable major and subcommand codes.

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Block 6 - Organization Code. Alpha characters for local use and is one position alpha, excluding "X" or a numeric "1" to indicate engine(s) in a deployed status.

Block 7 - Engine Ownership Account. Enter the one position engine ownership account code. Account codes A, B, C, E, G, K, L, N, P, R, S, and Z are Air Force engines. Transfers between these accounts will be made on routine reports (code R, block 8). Account codes D, F, H, J, T, and W are other than Air Force engines. Transfer between Air Force and other than Air Force accounts will be made on K type report (block 8). All uninstalled engine transfers on K type reports must be documented and a copy of the document maintained as prescribed in referenced TO. If account code J is reported, see instructions (block 19). Engines transferred to classified project (L account, routine report) will not be reported thereafter until returned or until the classified project is canceled. Returns from a classified project will be reported as a receipt to the A-account on a routine report. Engines assigned to ground training (S account) require no subsequent reporting except when engines are installed, removed, or transferred, or when assignment to S account terminates. Engines installed and removed for training are to be considered as installed at all times. Engines received from other than Air Force activities for repair and return are to be retained in the activity's account while on hand. If an exchange of engines with the Air Force is to be accomplished, the transfers between accounts will be made on K type reports.

Block 8 - Engine Type Report. Enter the appropriate report code IAW the referenced TO.

Block 9 - Part Number. Enter the part number from the data plate.

Block 10 - Transaction Code. Circle the appropriate transaction code.

Block 11 - Condition Code. Circle the appropriate engine condition code.

Block 12 - Miscellaneous System Update. Circle the appropriate system update code.

Block 13 - To-From Command and/or SRAN. Enter the shipped to-from SRAN. Report the owning command code for tenant shipments and receipts. Block will be blank for reports of transfer to or from classified projects.

Block 14 - Type of Shipping Device. Optional.

Block 15 - Engine Related How Mal Codes. Enter the engine related How Mal Code that best identifies the symptom that is causing the removal.

Block 16 - Reason for Return to Overhaul. Enter appropriate reason for return to overhaul code.

Block 17 - Reparable Engine S/N. Optional or enter the S/N of the reparable engine being replaced by the serviceable shipment. This number or the word stock will be furnished by the EIM. If a number or the word stock is not furnished by the EIM, enter "Not Furn."

Block 18 - PRIMARY/SECONDARY HOW MAL INDICATOR, P (Primary) S (Secondary) (CIRCLE ONE)

Block 19 - SAP number. On K reports for engines gained to or from a SAP country, enter the six position SAP ID number contained in the supplementary address field, card columns 45 through 50, of the DD Form 1348-1A. If the SAP number is not listed in the supplementary address field, contact the prime EIM.

Block 20 - Document Number-NSN. Enter the debit or credit number from the document covering gain and loss transactions. For all shipments and receipts of uninstalled engines to-from a different SRAN reporting activity, enter the TCN from card columns 30 through 43 of the DD Form 1348-1A or block six of DD Form 1149, REQUISITION AND INVOICE/SHIPPING DOCUMENT. If not received with the engine, contact the previous SRAN EM for the TCN the engine was shipped with.

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Also, if the shipment has been reported to CEMS, the TCN will appear on part 2 of the EMDL. For uninstalled reimbursable account transfer (K type report), to a non-Air Force account (SAP, Navy, Army, FAA, etc.), report the requesting activities requisition number obtained from the prime EIM.

Document numbers are constructed following the guidance in DOD 4000 25-1-M, Military Standard Requisitioning and Issue Procedures (MILSTRIP), or per instructions in AFM 23-110 and/or applicable Supply Local Operating Instructions.

Position 1-6	DOD Activity Address - Code of Activity assigning the number e.g. FJ2039 (FJ suffix is used for Air Force reporting and EJ suffix is used for Contractor)
Position 7	Last digit of the calendar year
Position 8-10	Julian day of document assignment
Position 11-12	S/N assigned by activity
Position 13-14	Two digit alpha engine ID code

NSN is constructed as follows:

Position 1-4	Federal Stock Class, e.g., 2840
Position 5-6	Country Code, e.g., 01 (USA)
Position 7-13	National Item Identifier Number (NIIN) e.g., 5869746
Position 14-15	Material Management Code (MMC), e.g., RU, if applicable

Block 21 - Engine Flying Time. For non-parts tracked (status) engines, enter TSO. Time is recorded in days, hours, or minutes as required by engine TMSM. The number is right justified with a single decimal place. The fraction of hours is rounded (up or down) to the nearest tenth of an hour. Time will be reported in whole minutes for the J69-406 engines. Time will be recorded in whole calendar days on the F107 and F112 engines.

Block 22 - Cycle Sortie Count. Enter cycle sortie count.

Block 23 - TMSM. Enter the TMSM for the engine that is being reported. TMSM is defined as a 12 position field for TMS and Modification of a given engine family.

Position 1-3	Type (alphanumeric, right justified, prefix with spaces)
Position 4-7	Model (alphanumeric, right justified, prefix with zeros)
Position 8-10	Series (alphanumeric, right justified, prefix with zeros)
Position 11-12	Modification (alphanumeric, left justified, suffix with spaces) Reference TMSM table.

Block 24 - NHA Designation. When entry is required and the NHA is an aircraft, enter the seven position alphanumeric MDS; or enter the NHA seven position alphanumeric CII code. When entry is required and the report initialized (TCC 6N) an uninstalled tracked item, fill all seven positions with nines.

Standard MDS structure is as follows:

Position 1-3	Mission (alphanumeric, right justified, prefix with spaces)
Position 4-6	Design (alphanumeric, right justified, prefix with zeros)
Position 7	Series (alphanumeric)

Block 25 - NHA S/N Structure. For aircraft S/N, use YYNNNNNNNN where YY is year of manufacture and NNNNNNNN is the tail number prefixed with zeros. When an initialization entry (TCC 6N) is required on an uninstalled tracked item, fill all 10 positions with nines.

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Block 26 - Position Number. If the engine being reported is applicable to a single QPA, enter the digit one. For multiple engine aircraft, engines will be numbered from left to right from pilot's position. Missiles and tracked assemblies/parts are exempt from this entry.

Block 27 - Is used when additional information is required on CEMS Event Report, i.e., Reason for Delay Codes.

CEMS EVENT REPORT

1. CII DESIGNATION		2. SERIAL NUMBER				3. OCCURRENCE		4. SRAN	5. CMD	6. ORG	7. ACCT
						3a. DATE	3b. HOUR				
8. Type Report		9. PART NUMBER				13. TO/FROM		14. SHIPPING DEVICE			
						13a. CMD	13b. SRAN				
10. TRANSACTION		11. CONDITION		12. MISC SYSTEM UPDATES							
GAIN		SERVICEABLE		COMMAND CODE CHANGE	2C	15. ENG RELATED HOW MAL CODE		16. REASON FOR RETURN TO OVHL		17. REPARABLE ENG SERIAL NUMBER	
NEW PRODUCTION	A	BUILT-UP	B	ACCOUNT CODE CHANGE	2D						
REIMBURSABLE	B	RAW	R	ORG CODE CHANGE	2M						
NON-REIMBURSABLE	C			MDS/POSITION CHANGE	2P						
EXCHANGE	D			REVERSE SHIP/TRANS	2R	18. PRIMARY/SECONDARY HOW MAL INDICATOR (CIRCLE ONE) P S				19. SAP NUMBER	
		REPARABLE		ADD TIME	6A						
LOSS		CONDEMNED	C	REACTIVATE CONDEMN (PARTS)	6B						
ATTRITION	W	WITH QEC	F	CONDEMN (PARTS)	6C	20. DOCUMENT NUMBER/NSN					
FOR PARTS	X	WITHOUT QEC	G	UPDATE TO UNKN (PARTS)	6D						
SALVAGE/DPDO	Y	MINOR OVHL	K	ENGINE ID CHANGE	6E						
OTHER	Z	MAJOR OVHL	L	AIRCRAFT TIME UPDATE	6F	21. ENGINE FLYING TIME				22. CYCLE/SORTIE	
		QUICK TURN	Q	MASS LOSS (PARTS)	6G						
INSTALLED				SINGLE ENGINE UPDATE	6H						
RECEIVED	R	INSTALLED		MASS INITIALIZATION (PARTS)	6I	23. TMSM		24. NHA DESIGNATOR			
TRANSFERRED	T	ACTIVE	A	INITIALIZE/SRAN CHG (PARTS)	6N						
TRANSIENT	U	INACTIVE	Z	MAINTENANCE UPDATE	6P						
OTHER	V			SUBTRACT TIME	6S	25. NHA SERIAL NUMBER		26. POSITION			
				INITIALIZE WINDOW VALUES	6T						
UNINSTALLED				UPDATE	6U						
ENMCS	E			EGT UPDATE (F108 ONLY)	6W	27. REMARKS					
WORK COMPLETED	F			MANUAL TIME CHANGE	6X						
TEST CELL REJECT	G										
WORK STOPPED	H										
WORK STARTED	J										
REMOVED TRANSIENT	K										
REMOVED OTHER	L										
CHANGE IN MAINT	M										
AWAIT DISPOSITION	N										
ISSUE MAINTENANCE	P										
RECEIVED	R										
SHIPPED	S										
STORAGE		STORAGE									
STORAGE INSTALLED	8	THREE POINT CONNECTION	Z								

CEMS EVENT REPORTING Dec-14

End of DI-MGMT-81324C